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☐ 1. Document ID: US 20040068820 A1

L1: Entry 1 of 12

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040068820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040068820 A1

TITLE: Porous material for insertion cleaning of instruments

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Johnsen, James B.	Beaverton	OR	US
Oien, Hal J.	Beaverton	OR	US

US-CL-CURRENT: 15/244.1; 15/210.1, 15/218.1, 15/227

ABSTRACT:

A porous material for insertion cleaning of instruments is provided, such porous material including an at least partially open-cell foam body and a surface configured to enable an instrument having contaminants to be inserted into the body. The body may be configured to substantially grip the instrument to remove a substantial portion of the contaminants from the instrument.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INNO	Draw. De
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☐ 2. Document ID: US 20030131871 A1

L1: Entry 2 of 12

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030131871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030131871 A1

TITLE: Device for cleaning dental instruments

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cetrangelo, Regina A.	Centereach	NY	US

US-CL-CURRENT: 134/6; 15/210.1

ABSTRACT:

A device made of flexible material for cleaning sharp-tipped dental instruments in a way that protects the practitioner against puncture wounds or cuts. The device contains a) a finger rest, b) a stem, and c) an open container having a textured exterior surface, an interior surface, and a top. The exterior surface has a girth near the top. The interior surface contains a plurality of prongs. The top has a protective rim. For use, gauze is put into the container and the gauze is contacted with the sharp tip of the dental instrument. Pressure is applied to the container to help create a firm contact between the gauze and the instrument. The prongs help to keep the gauze in place while the instrument is being removed. The use of this device helps prevent puncture wounds or cuts caused by the dental instrument and the accompanying possibility of infection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Ds
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☐ 3. Document ID: US 6971879 B2

L1: Entry 3 of 12

File: USPT

Dec 6, 2005

US-PAT-NO: 6971879

DOCUMENT-IDENTIFIER: US 6971879 B2

TITLE: Dispenser for low viscosity dental materials

DATE-ISSUED: December 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Discko, Jr.; John J.	Trumbull	CT		

US-CL-CURRENT: 433/163; 15/104.92

ABSTRACT:

A dispenser made of a pliable material having a slit therein for dispensing primarily low viscosity materials. A block made of pliable foam contains a low viscosity material within a slit. Dental instruments or dental material applicators having an applicating end are inserted into the slit of the block, coating the applicator end with the low viscosity material. The resilient nature of the block material also helps to keep the dental instrument clean by wiping the instrument against the interior sides of the pocket formed by the slit. The present invention is particularly well suited for dispensing a lubricating material, such as a resin, on dental instruments used in working, shaping, or contouring a relatively viscous composite restorative material on a patient's tooth.

12 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWC	Draw De
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☐ 4. Document ID: US 5704088 A

L1: Entry 4 of 12

File: USPT

Jan 6, 1998

US-PAT-NO: 5704088

DOCUMENT-IDENTIFIER: US 5704088 A

TITLE: Apparatus for cleaning of sharp medical and dental instruments

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cerroni; Peter M.	Peterborough	NH	03458	

US-CL-CURRENT: 15/160; 15/218.1, 15/220.4, 401/10, 401/132, 401/9

ABSTRACT:

The present invention is directed to an inexpensive apparatus and a method of use thereof which provides for more safe cleaning of soiled, sharp health care instruments. The instrument to be cleaned is inserted into a flexible, sealed chamber containing a means for controllably brushing and cleaning the instrument. The user compresses the apparatus with one hand while manipulating the instrument with the other hand to clean the instrument. The user is provided more protection than conventional methods and devices against being injured by the instrument and both the user and the environment are provided more protection against being contaminated by debris carried on the instrument during cleaning of the instrument.

15 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWC	Draw De
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☐ 5. Document ID: US 5477581 A

L1: Entry 5 of 12

File: USPT

Dec 26, 1995

US-PAT-NO: 5477581

DOCUMENT-IDENTIFIER: US 5477581 A

TITLE: Dental prophylaxis instrument wiper

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wind; Denise A.	Valley Stream	NY	11581	

US-CL-CURRENT: 15/210.1; 15/218.1, 15/220.4

ABSTRACT:

A device for repetitively cleaning the tips, edges and blades of dental instruments during prophylaxis. A first embodiment includes two substantially parallel, contiguous rolls made from a rough, absorbent material and attached to an adhesive strip including a lower surface which adhesively attaches to a dental tray. Second, third and fourth embodiments include, respectively, three, four and five substantially parallel, contiguous rolls.

18 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw De
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☐ 6. Document ID: US 5471706 A

L1: Entry 6 of 12

File: USPT

Dec 5, 1995

US-PAT-NO: 5471706

DOCUMENT-IDENTIFIER: US 5471706 A

TITLE: Means for cleaning of health care instruments

DATE-ISSUED: December 5, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallock; Joan	Bolingbrook	IL		
Leu; James M.	Bolingbrook	IL	60440	

US-CL-CURRENT: 15/302; 15/104.92, 15/310, 15/88.1

ABSTRACT:

A device for cleaning soiled health care instrument having bristles carried by a tubularly bent flexible panel within a tubular container. The container has opposite ends one of which is enclosed and the opposite of which permits cleansing entry of instruments into the container. Said opposite end may have a self-sealing door entrance for projection therethrough of the instruments to be cleaned. Protection is provided against injury from exposed sharp edges of the instruments be cleaned. Liquid cleaning simultaneously with the bristle cleansing is provided. Aerosolization preventing suction may be associated with the container.

17 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw De
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☐ 7. Document ID: US 5323795 A

L1: Entry 7 of 12

File: USPT

Jun 28, 1994

US-PAT-NO: 5323795

DOCUMENT-IDENTIFIER: US 5323795 A

**** See image for Certificate of Correction ****TITLE: Dental instrument for massaging gums and cleaning teeth

DATE-ISSUED: June 28, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berens; Mathew G.	Canton	MI	48187	

US-CL-CURRENT: 132/309; 15/110, 601/139

ABSTRACT:

A dental instrument, particularly such an instrument equipped on a toothbrush, which provides excellent tooth picking function, gum line probing, and gum massage. A distal end segment of a handle is provided with an elastomer oral hygiene member in the form of both a toothpick and a gum massager. An arm of planar shape that is elongated along the handle axis and tapering to an edge remote from the handle, projects perpendicularly from the distal end segment of the handle. The oral hygiene member is formed over the distal end segment of the handle, inclusive of the arm. The oral hygiene member provides a gum massager, having preferably a convex dome shape, wherein the center of curvature thereof is located axially with respect to the handle. The oral hygiene member further provides a toothpick of planar shape formed over the arm. The toothpick is elongated along the handle axis and tapers to a tip radially remote from the arm. The taper of the toothpick and the arm, together with the radial length of the arm in relation to the radial length of the toothpick provides a progressive variation in flexibility of the toothpick, with greatest flexibility at the tip, and least flexibility adjacent the distal end segment of the handle. A handle indentation accommodates the toothpick, thereby allowing its passage through a conventional toothpick holder aperture.

19 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw De
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☐ 8. Document ID: US 5308406 A

L1: Entry 8 of 12

File: USPT

May 3, 1994

US-PAT-NO: 5308406
DOCUMENT-IDENTIFIER: US 5308406 A

TITLE: Cleaning of health care instruments

DATE-ISSUED: May 3, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallock; Joan	Bolingbrook	IL	60440	
Leu; James M.	Bolingbrook	IL	60440	

US-CL-CURRENT: 134/42; 15/104.5, 15/104.92, 15/21.2, 401/10

ABSTRACT:

A method for cleaning soiled health care instruments involving subjecting the soiled surfaces of the instruments to a surrounding array of generally inwardly directed cleansing bristles. The bristles are carried by a tubularly bent flexible panel within a tubular container. The container has opposite ends one of which is closed and the oppose of which permits cleansing entry of instruments into the container. Said opposite end may have a self-sealing door entrance for projections therethrough of the instruments to be cleaned. Protection is provided against injury from exposed sharp edges of the instruments being cleaned. Liquid cleaning simultaneously with the bristle cleansing is provided for.

20 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Data
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☐ 9. Document ID: US 4106152 A

L1: Entry 9 of 12

File: USPT

Aug 15, 1978

US-PAT-NO: 4106152
DOCUMENT-IDENTIFIER: US 4106152 A

TITLE: Toothbrush

DATE-ISSUED: August 15, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hadary; Joseph	Bethesda	MD	20014	

US-CL-CURRENT: 15/172; 132/308, 15/176.4, 30/339

ABSTRACT:

A toothbrush having an elongate handle with an enlarged base end capable of

supporting the toothbrush in an upright position and being hollow for storage of the bristle head or the like therein, includes an elongate shaft fixed at one end to the base and projecting axially therefrom. A tubular sleeve is axially slidable on the shaft and the shaft has bristle head retaining structure thereon for retaining a bristle head on the handle at the end thereof opposite the base end. The sleeve is normally biased toward the base end to a first position, whereat the bristle head retaining structure is engaged with the bristle head to hold it in position and the sleeve is movable away from the base end to a second position to move the bristle head to disengage it from the bristle head retaining structure. A finger operated sleeve actuator is slidable relative to the base end and shaft to engage the sleeve and move it to its second position, and a seal is engaged between the shaft and sleeve at the bristle head end.

10 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NUMC	Draw De
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☐ 10. Document ID: US 4033007 A

L1: Entry 10 of 12

File: USPT

Jul 5, 1977

US-PAT-NO: 4033007
DOCUMENT-IDENTIFIER: US 4033007 A

TITLE: Toothbrush

DATE-ISSUED: July 5, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hadary; Joseph	Bethesda	MD	20014	

US-CL-CURRENT: 15/172; 132/309, 132/328, 15/143.1, 15/176.4

ABSTRACT:

A toothbrush having a bristle supporting head pivotally mounted to a handle for pivotal movement of the head and bristles about a pivot axis substantially perpendicular to the axis of the handle to a plurality of positions to gain easy access to tooth surfaces at opposite sides of the mouth, the bristles extending in a direction mutually perpendicular to the axis of the handle and pivot axis, and the handle having an enlarged hollow end for storage therein of a bristle supporting head or the like and for supporting the toothbrush in an upright, free standing position.

6 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NUMC	Draw De
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Term	Documents
DENTAL	47483
DENTALS	19
INSTRUMENTS	239264
INSTRUMENT	267002
CLEANING	349942
CLEANINGS	2757
15/\$	0
"15/DIG.1"	51
"15/DIG.10"	295
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(((DENTAL INSTRUMENTS) WITH CLEANING) AND 15/ \$.CCLS.).PGPB,USPT.	12

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